

Claims

We claim:

- 5 1. A composition for inhibiting protein activated receptor activity comprising a protein, peptide, biomolecule or active fragment thereof.
- 10 2. The composition of Claim 1 wherein the protein activated receptor comprises PAR-1, PAR-2, PAR-3 or PAR-4.
- 15 3. The composition of Claim 1 wherein the protein, peptide, or biomolecule comprises LIGK (SEQ ID NO:1), LIGKV (SEQ ID NO:2), KGIL (SEQ ID NO:3), KGI (SEQ ID NO:4), AGI (SEQ ID NO:5), IGA (SEQ ID NO:6), KGA (SEQ ID NO:7), KGA (SEQ ID NO:8), KAI (SEQ ID NO:9), IAK (SEQ ID NO:10), RGI (SEQ ID. NO:11), IGR (SEQ ID NO:12), Dab-GI (SEQ ID NO:13), Dap-GI (SEQ ID NO:14), IG-Dab (SEQ ID NO:15), IG-Dap (SEQ ID NO:16), LIG-Dab (SEQ ID NO:17), Dab-GIL (SEQ ID NO:18), LIG-Dap (SEQ ID NO:19), Dap-GIL (SEQ ID NO:20), LIG-Orn (SEQ ID NO:21), Orn-GIL (SEQ ID: 22), Orn-GI (SEQ ID NO:23), IG-Orn (SEQ ID NO:24), ENMD 545, ENMD 547 and active fragments thereof.
- 25 4. The composition of Claim 3, wherein the protein activated receptor comprises PAR-2.
- 30 5. The composition of Claim 1, wherein the protein activated receptor comprises PAR-2 and wherein the wherein the protein, peptide, or biomolecule comprises LIGK (SEQ ID NO:1).

6. The composition of Claim 1, wherein the protein activated receptor comprises PAR-2 and wherein the wherein the protein, peptide, or biomolecule comprises ENMD 547.
- 5 7. The composition of Claim 1, further comprising a pharmaceutically acceptable carrier.
8. A method for inhibiting protein activated receptor activity in a subject comprising administering to said subject protein, peptide, biomolecule or active fragment thereof.
- 10 9. The method of Claim 8, wherein the protein activated receptor comprises PAR-1, PAR-2, PAR-3 or PAR-4.
- 15 10. The method of Claim 8, wherein the protein, peptide, or biomolecule comprises LIGK (SEQ ID NO:1), LIGKV (SEQ ID NO:2), KGIL (SEQ ID NO:3), KGI (SEQ ID NO:4), AGI (SEQ ID NO:5), IGA (SEQ ID NO:6), KGA (SEQ ID NO:7), KGA (SEQ ID NO:8), KAI (SEQ ID NO:9), IAK (SEQ ID NO:10), RGI (SEQ ID. NO:11), IGR (SEQ ID NO:12), Dab-GI (SEQ ID NO:13), Dap-GI (SEQ ID NO:14), IG-Dab (SEQ ID NO:15), IG-Dap (SEQ ID NO:16), LIG-Dab (SEQ ID NO:17), Dab-GIL (SEQ ID NO:18), LIG-Dap (SEQ ID NO:19), Dap-GIL (SEQ ID NO:20), LIG-Orn (SEQ ID NO:21), Orn-GIL (SEQ ID: 22), Orn-GI (SEQ ID NO:23), IG-Orn (SEQ ID NO:24), ENMD 545, ENMD 547 and active fragments thereof.
- 20 11. The method of Claim 8, wherein the protein activated receptor comprises PAR-2.
- 25 12. The method of Claim 8, wherein the protein activated receptor comprises PAR-2 and wherein the wherein the protein, peptide, or biomolecule comprises LIGK (SEQ ID NO:1).
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13. The method of Claim 8, wherein the protein activated receptor comprises PAR-2 and wherein the wherein the protein, peptide, or biomolecule comprises ENMD 547.

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14. The method of Claim 8, further comprising a pharmaceutically acceptable carrier.

15. A method for treating a disorder associated with abnormal protein activated receptor activity comprising administering to a subject in need of such treatment, a composition comprising a protein, peptide, biomolecule or active fragment thereof capable of inhibiting protein activated receptor activity.

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16. The method of Claim 15, wherein the protein, peptide, or biomolecule comprises LIGK (SEQ ID NO:1), LIGKV (SEQ ID NO:2), KGIL (SEQ ID NO:3), KGI (SEQ ID NO:4), AGI (SEQ ID NO:5), IGA (SEQ ID NO:6), KGA (SEQ ID NO:7), KGA (SEQ ID NO:8), KAI (SEQ ID NO:9), IAK (SEQ ID NO:10), RGI (SEQ ID. NO:11), IGR (SEQ ID NO:12), Dab-GI (SEQ ID NO:13), Dap-GI (SEQ ID NO:14), IG-Dab (SEQ ID NO:15), IG-Dap (SEQ ID NO:16), LIG-Dab (SEQ ID NO:17), Dab-GIL (SEQ ID NO:18), LIG-Dap (SEQ ID NO:19), Dap-GIL (SEQ ID NO:20), LIG-Orn (SEQ ID NO:21), Orn-GIL (SEQ ID: 22), Orn-GI (SEQ ID NO:23), IG-Orn (SEQ ID NO:24), ENMD 545, ENMD 547 and active fragments thereof.

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17. The method of Claim 15, wherein the disorder comprises angiogenic disease, undesirable neovascularization, inflammation, tumor growth, sepsis, neurogenic inflammatory pain, asthma, post operative ileus and cancer.

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18. The method of Claim 17, wherein the disorder comprises inflammation and wherein the protein, peptide, or biomolecule comprises LIGK (SEQ ID NO:1).

5 19. The method of Claim 17, wherein the disorder comprises inflammation and wherein the protein, peptide, or biomolecule comprises ENMD 547.

10 20. The method of Claim 15 further comprising a pharmaceutically acceptable carrier.

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